

# Coordinated Plan of Study

## North Dakota Career and Technical Education or Academic Scholarship

### INFORMATION TECHNOLOGY EDUCATION

Information Technology Career Cluster	
Course Code	Description
27101	Intro to IT
27280	Introduction to Cybersecurity
23011	Computer Science Applications
Information Support & Services Pathway	
Course Code	Description
27111	Internet of Things Fundamentals
27219	Computer Hardware and Operating Systems (A+)
27220	IT Essentials 2
27265	Introduction to Networking
27266	CCNA Introduction to Networks
27300	Essentials of Desktop Operating Systems
27305	Essentials of Desktop Operating Systems – Linux
27400	Geographic Info Systems (GIS)
27995	IT Internship
27999	Cooperative Work Experience
51012	Governor's School: Information Technology

Information Technology Career Cluster	
Course Code	Description
27101	Intro to IT
27280	Introduction to Cybersecurity
23011	Computer Science Applications
Network Systems Pathway	
Course Code	Description
27111	Internet of Things Fundamentals
27219	Computer Hardware and Operating Systems (A+)
27220	IT Essentials 2
27265	Introduction to Networking
27266	CCNA Introduction to Networks
27267	CCNA Routing & Switching Essentials
27268	CCNA Scaling Networks
27269	CCNA Connecting Networks
27305	Essentials of Desktop Operating Systems – Linux
27310	Essentials of Network Operating Systems
27995	IT Internship
27999	Cooperative Work Experience
51012	Governor's School: Information Technology

Information Technology Career Cluster	
Course Code	Description
27101	Intro to IT
27280	Introduction to Cybersecurity
23011	Computer Science Applications
Programming & Software Development Pathway	
Course Code	Description
27120	Intro to Programming Languages
27122	Programming Essentials
23012	CS Programming
27123	Programming Essentials: Python
27124	Programming Essentials: C++
27125	Fundamentals of JAVA Programming
27127	Advanced JAVA Programming
23015	Advanced CS Programming
27128	Mobile Applications Development
27130	Computer Gaming and Design
27131	Computer Gaming and Design 2
27170	Introduction to Web Design
27500	Data Modeling & SQL
27510	CTE AP CS Principles
23582	AP Computer Science Principles
27520	CTE AP CS A
23580	AP Computer Science A
10820	PLTW Cybersecurity
10810	PLTW Computer Science Essentials
10815	PLTW Computer Science Principles
27995	IT Internship
27999	Cooperative Work Experience
51012	Governor's School: Information Technology

Information Technology Career Cluster	
Course Code	Description
27101	Intro to IT
27280	Introduction to Cybersecurity
23011	Computer Science Applications
Web and Digital Communications Pathway	
Course Code	Description
27102	Computer Software Application
27128	Mobile Applications Development
27130	Computer Gaming and Design
27131	Computer Gaming and Design 2
27170	Introduction to Web Design
27400	Geographic Info Systems (GIS)
27995	IT Internship
27999	Cooperative Work Experience

- Student must complete at least 2 credits in one Career Cluster/Pathway.
- The top/blue section of the plan consists of more general courses that fit into the career cluster. The second/red section identifies a career pathway within that cluster and contains courses intended to better prepare students interested in that specific pathway.
- To complete two credits in a coordinated plan of study, a student chooses two or more courses to equal that number of credits, utilizing courses from both sections.
- Gray cells are classes not funded by NDCTE.